

## A New Species of *Asplenium* from Ponape Island, Micronesia

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ミクロネシア・ポンペ島で発見されたチャセンシダ属の1新種

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A new fern collected from Ponape Island, Micronesia is described as *Asplenium ponapeanum*. The similarity to *Asplenium bipinnatifidum* Baker and the juvenile forms of *A. scolopendropsis* F. Muell. is noted.

The first author, Nakamura, has visited Ponape Island, Micronesia since 1972 and made ecological researches there. In 1982, he found a curious fern of *Asplenium*, and reported the occurrence with two photographs (Nakamura 1985). The authors have compared this fern with various related and resembling species using the specimens preserved in BISH, BO, SING, SUVA and TI. This is similar to *Asplenium bipinnatifidum* Baker but differs by the tri- or tetra-pinnate, 6–10 cm wide laminas and linear-lanceolate or lanceolate scales. In *A. scolopendropsis* F. Muell. the juvenile sterile fronds resemble this except for the linear-lanceolate, entire scales on rhizomes, and the dissection of the lamina. This fern also resembles *Loxoscaphe*, but apparently differs by the more or less

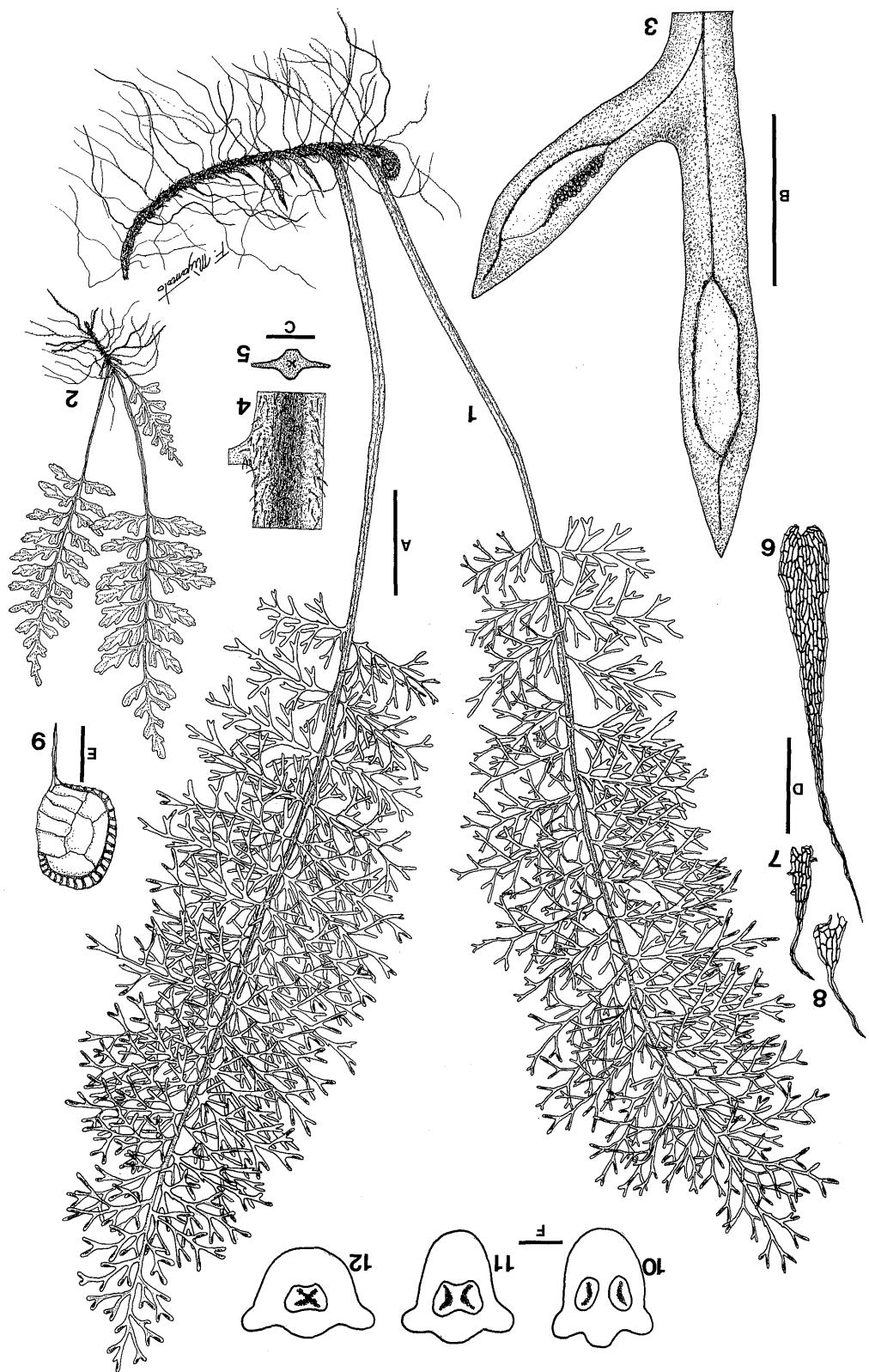
elongate sori along veins.

***Asplenium ponapeanum* T. Nakamura et Miyamoto, sp. nov. (Fig. 1).**

A *Asplenio bipinnatifido* Baker laminis 6–10 cm latis, pinnis tri- vel quadri-pinnatis, squamis linear-lanceolatis vel lanceolatis, a *A. scolopendropsi* F. Muell. rhizomatis squamis linear-lanceolatis integris bene differt.

Rhizoma repens ca. 3–4 mm latum, frondibus apicalibus squamis linear-lanceolatis vel lanceolatis, 5–8 mm longis, 0.8–1.2 mm latis, fuscis, margine integris dense vestitis. Stipes viridis plus minusve compressus, 10–13 cm longus, squamis lanceolatis, 1–3 mm longis, 0.4–0.6 mm latis, fuscis, margine subintegris. Lamina herbacea, flavovirens, 20–25 cm longa, 6–10 cm lata,

Fig. 1. *Asplenium ponapeanum* (type). 1: Habit. 2: Juvenile form. 3: Sori. 4: Middle of adaxial rachis. 5: Cross section of rachis. 6: Scale on rhizome. 7: Scale on stipe. 8: Scale on rachis. 9: Sporangium. 10, 11, and 12: Cross sections of stipe, 10: at base, 11: at middle, 12: at upper. Scales: A (2 cm) for 1 and 2; B (3 mm) for 3; C (2 mm) for 4 and 5; D (2 mm) for 6, 7 and 8; E (20  $\mu$ m) for 9, and F (2 mm) for 10, 11 and 12.



modice oblongo-lanceolata, tri- vel quadri-pinnatisecta. Rachis viridis, alata, squamis lanceo-latis, 0.5–2 mm longis, 0.2–0.5 mm latis, fuscis, subintegris sparsim vestitis. Pinnae 15–21-jugae, ovatae, patentes, petiolulatae, 3–5.5 cm longae, 2–3 cm latae; lobis linearibus vel linear-i-lanceo-latis, integris, 2–8 mm longis, 1–1.3 mm latis. Sori lineares, solitarii in quoque lobo secus venam; indusiis linearibus, 1.5–3.0 mm longis, integris. Sporangia 0.65 mm longa, cellulis annularibus ca. 20. Sporae ornamentis echinatis acicularis inter-dum bifurcatis, diametro ca. 25  $\mu\text{m}$ .

Hab. Micronesia: Ponape Island, Mt. Nahnalau, alt. 600 m (T. Nakamura, Sept. 8, 1982 no. 2462 TI-holotype, the duplicate sent to BM, BISH, US); Nanpil – Mt. Nahnalau, alt. 400 m (T. Nakamura, Sept. 6, 1982, TI). On wet rocks covered with mosses near streams in *Campnosperma-Clinostigma* forests, together with *Mecodium polyanthos*.

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of Latin description. We are also grateful to the curators of the following herbaria for giving us the opportunity to examine specimens: BISH, BO, SING, SUVA and TI.

#### References

Nakamura T. 1985. Island of Ponape, the Nature and the Plants, Dai-ichi-Hoki Shuppan Co. Tokyo, Japan (in Japanese).

#### 要旨

ミクロネシア・ポンペ島で採集されたチャセンシダ属植物の1新種を記載した。*Asplenium ponapeanum*と命名、和名ポンペサフサシダはすでに中村武久(編)：ポンペ島—その自然と植物、112頁に写真と共に1985年に発表済みである。本種は3から4回羽状の葉身を持ち、*A. bipinnatifidum*、さらに*A. scolopendropsis*の幼個体に似る。しかし、本種は葉身が常に3回羽状以上に切れ込み、単葉または単羽状にならないこと、鱗片が線状披針形から披針形を呈することで明確に区別できる。また葉の形態は*Loxoscaphe*属植物に近似するが、ソーラスが常に脈に沿ってつくことで全く異なる。